

NASA TECH BRIEF



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Welding, Brazing, and Soldering Handbook

A handbook has been compiled to provide design engineers a single comprehensive source of information on the selection and application of welding, brazing, and soldering techniques to the joining of various metals. The handbook includes 106 illustrations and tables of data, as well as a short bibliography (52 citations). This illustrated reference work provides summary descriptions of the joining processes, criteria for the selection of a particular process for specific alloys, types of joints, structural configurations, and material thicknesses, and details the advantages and disadvantages of the different joining methods for various structural designs and applications. The following joining methods are covered: fusion welding (arc welding, electron beam welding, electroslag welding, laser beam welding); resistance

welding; solid state welding; brazing (including filler metal compositions and properties); and soldering (including solder compositions and properties).

Note:

Copies of the handbook are available from:

Clearinghouse for Federal Scientific
and Technical Information

Springfield, Virginia 22151

Price \$3.00

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